	Application No.	Application No. Applicant(s)	
Notice of Allowability	09/864,905	9/864.905 MILLER ET AL.	
	Examiner	Art Unit	
	Hong Liu	1624	
The MAILING DATE of this communication app s being allowable, PROSECUTION ON THE MERITS IS (or previously mailed), a Notice of Allowance (PTOL-85 OF ALLOWABILITY IS NOT A GRANT OF PATENT R ffice or upon petition by the applicant. See 37 CFR 1.31:	(OR REMAINS) CLOSED in the commeter of the commeter appropriate commeter application is and MPEP 1308.	n this application. If not including the including the industrian will be mailed in du	uded ue course. THIS
nis communication is responsive to the amendment of Ju	<u>ıne 2, 2004</u> .		
ne allowed claim(s) is/are <u>1-4,6-10,12-15,17-22,27-31,3</u>	3 and 38-42.		
ne drawings filed on are accepted by the Examine	∍r.		
cknowledgment is made of a claim for foreign priority u All b Some* c None of the: Certified copies of the priority documents hav Certified copies of the priority documents hav Copies of the certified copies of the priority documents hav International Bureau (PCT Rule 17.2(a)). Certified copies not received:	e been received. e been received in Applicati	on No	cation from the
ant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDON! THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the	requirements
SUBSTITUTE OATH OR DECLARATION must be subn IFORMAL PATENT APPLICATION (PTO-152) which giv			NOTICE OF
ORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_•		
including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of	
ifying indicia such as the application number (see 37 CFR sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not FR 1.121(d).	the back) of
EPOSIT OF and/or INFORMATION about the depotate tached Examiner's comment regarding REQUIREMENT			f. Note the
nent(s) htice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (F	PTO-152)
tice of Draftperson's Patent Drawing Review (PTO-948)		ew Summary (PTO-413),	
ormation Disclosure Statements (PTO-1449 or PTO/SB/aper No./Mail Dateaminer's Comment Regarding Requirement for Deposit	08), 7. Examiner's	./Mail Date s Amendment/Comment s Statement of Reasons for A	Allowance
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Application/Control Number: 09/864,905

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The closest reference of record is Czollner et al. (WO 97/40049). The reference teaches diazabicyclo[3,31]nonane derivatives, their process and use. See formula I, Page 4. The instantly claimed compounds differ from the reference compounds in the substituents on one of the nitrogens of the diazabicyclo[3,31]nonane. It is hydrogen in the instant invention whereas it is substituted with a non-hydrogen substituent in the reference. The closest compound in the reference is the one with one of the nitrogens of the diazabicyclo[3,31]nonane substituted by methyl. Applicants compared their compound with the closest reference compound and found that their hydrogen substituted diazabicyclo[3,31]nonane compound is 40-fold more potent in inhibiting the nicotinic $\alpha 4\beta 2$ receptor than the methyl substituted compound from the reference (see page 5 of Dr. Craig Miller's Declaration). Since the side by side comparison of the instantly claimed compounds and the reference compounds showed unexpected result for the instant compounds, the instantly claimed compounds are deemed to be novel and patentably distinct.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication should be directed to Examiner Hong Liu whose telephone number is (571) 272-0669. The examiner can normally be reached on Monday through Friday from 8:30 AM to 6:00 PM.

If attempts to reach the examiner by the phone are unsuccessful, the examiner's supervisors, Mukund Shah can be reached at (571) 272-0674. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 358-1235.

PRIMARY ÉXAMINE ART UNIT 1624

Mukund Shah

Supervisory Patent Examiner

Art Unit 1624

hl June 8, 2004